# CONTENTS OF VOLUME 27B

## Number 1


| | | |
|---|---|---|
| Hyoun-Young Lee | 1 | An application of NOAA AVHRR thermal data to the study of urban heat islands |
| R. H. Schulze | 15 | The 20-year history of the evolution of air pollution control legislation in the U.S.A. |
| R. D. Scheffe and R. E. Morris | 23 | A review of the development and application of the Urban Airshed Model |
| R. B. Wilson | 41 | Review of development and application of CRSTER and MPTER models |
| J. Pastuszka, S. Hławiczka and K. Willeke | 59 | Particulate pollution levels in Katowice, a highly industrialized Polish city |
| M. A. H. Eltayeb, C. F. Xhoffer, P. J. Van Espen, R. E. Van Grieken and W. Maenhaut | 67 | Sources and composition of aerosol from Khartoum, Sudan |
| C. Saiz-Jimenez | 77 | Deposition of airborne organic pollutants on historic buildings |
| N. Kumar, U. C. Kulshreshta, A. Saxena, K. M. Kumari and S. S. Srivastava | 87 | Effect of anthropogenic activity on formate and acetate levels in precipitation at four sites in Agra, India |
| I. G. McKendry | 93 | Ground-level ozone in Montreal, Canada |
| K. E. Grønskei, S. E. Walker and F. Gram | 105 | Evaluation of a model for hourly spatial concentration distributions |
| T. Gotoh | 121 | Relation between heat islands and $NO_2$ pollution in some Japanese cities |


## Number 2


| | | |
|---|---|---|
| L. O. Myrup, C. E. McGinn and R. G. Flocchini | 129 | An analysis of microclimatic variation in a suburban environment |
| G. M. Mills | 157 | Simulation of the energy budget of an urban canyon—I. Model structure and sensitivity test |
| G. M. Mills and A. J. Arnfield | 171 | Simulation of the energy budget of an urban canyon—II. Comparison of model results with measurements |
| S. Sollinger, K. Levsen and G. Wünsch | 183 | Indoor air pollution by organic emissions from textile floor coverings. Climate chamber studies under dynamic conditions |
| W. G. Cobourn, K. L. Gauri, S. Tambe, S. Li and E. Saltik | 193 | Laboratory measurements of sulfur dioxide deposition velocity on marble and dolomite stone surfaces |
| H. Sakugawa, I. R. Kaplan and L. S. Shepard | 203 | Measurements of $H_2O_2$, aldehydes and organic acids in Los Angeles rainwater: their sources and deposition rates |

M. Boznar, M. Lesjak and P. Mlakar 221 A neural network-based method for short-term predictions of ambient $SO_2$ concentrations in highly polluted industrial areas of complex terrain

R. K. Stevens, R. J. Drago and Y. Mamane 231 A long path differential optical absorption spectrometer and EPA-approved fixed-point methods intercomparison

J. M. Lyons, C. Venkataraman, H. H. Main and S. K. Friedlander 237 Size distributions of trace metals in the Los Angeles atmosphere

M. Aceves and J. O. Grimalt 251 Large and small particle size screening of organic compounds in urban air

K. W. Nicholson and J. R. Branson 265 Lead concentrations in U.K. urban air

*A Note*
R. M. Tripathi, S. C. Ashawa and R. N. Khandekar 269 Atmospheric deposition of Pb, Cd, Cu and Zn in Bombay, India

Number 3

Y. Qin and L. Y. Chan 275 Traffic source emission and street level air pollution in urban areas of Guangzhou, South China (P.R.C.)

Y. Qin and S. C. Kot 283 Dispersion of vehicular emission in street canyons, Guangzhou City, South China (P.R.C.)

B. Rappenglück, K. Kourtidis and P. Fabian 293 Measurements of ozone and peroxyacetyl nitrate (PAN) in Munich

A. Fornaro, P. C. Isolani and I. G. R. Gutz 307 Low-cost automated rain collector and its application to the study of wet only deposition in São Paulo (Brazil)

R. Tsitouridou and C. Samara 313 First results of acidic and alkaline constituents determination in air particulates of Thessaloniki, Greece

D. S. Lee 321 Spatial variability of urban precipitation chemistry and deposition: statistical associations between constituents and potential removal processes of precursor species

F. Guidobaldi and A. M. Mecchi 339 Corrosion of ancient marble monuments by rain: evaluation of pre-industrial recession rates by laboratory simulations

Number 4

i Publisher's Notice

C. Pilinis, P. Kassomenos and G. Kallos 353 Modeling of photochemical pollution in Athens, Greece. Application of the RAMS-CALGRID modeling system

S. Jin and K. Demerjian 371 A photochemical box model for urban air quality study

H. C. Eerens, C. J. Sliggers and K. D. van den Hout — 389 — The CAR model: the Dutch method to determine city street air quality

M. S. El-Shobokshy and Y. G. Al-Saedi — 401 — Atmospheric turbidity and transmittance of solar radiation in Riyadh, Saudi Arabia

Chih-Shan Li, Wen-Hai Lin and Fu-Tien Jenq — 413 — Characterization of outdoor submicron particles and selected combustion sources of indoor particles

W. M. Cox and Shao-Hang Chu — 425 — Meteorologically adjusted ozone trends in urban areas: a probabilistic approach

A. Alexopoulos, D. Assimacopoulos and E. Mitsoulis — 435 — Model for traffic emissions estimation

I — Volume Contents and Author Index to Volume 27B, 1993